

AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions and listings of claims in the application:

1. (currently amended) An apparatus for acquiring image information using an array of an image acquisition units, each having an optical device, comprising:

a geometric array of image acquisition units, each having an ~~optical device generating an electrical signal depending on image intensity of a subject~~ image collecting lens unit, optical fiber bundle transmitting the light signal collected through the image collecting lens, and an image sensor unit transforming the transmitted light signal into an electric signal; and

an image signal output unit for receiving the electrical signal from the array and then generating a source electrical signal to process analog image.

2. (original) The apparatus for acquiring image information according to claim 1, wherein the array of image acquisition units is changeable in accordance with a geometric shape of the subject.

3. (original) The apparatus for acquiring image information according to claim 1, wherein the array of image acquisition units has a square, radial or circular shape, or combination thereof.

4. (original) The apparatus for acquiring image information according to claim 1, wherein the image acquisition unit includes:

an image collection lens unit for first collecting image from the subject;
an optical fiber bundle for transmitting the image optical information collected from the image collection lens unit;

an image intermediating lens unit for intermediating the subject image transmitted through the optical fiber bundle to an image acquisition lens unit; and

a light-receiving element for generating an electrical signal depending on intensity of the subject image acquired through the image acquisition lens unit.

5. (original) The apparatus for acquiring image information according to claim 4, wherein the image acquisition unit further includes an optical path arrangement unit

for keeping the image intermediating lens unit and the image acquisition lens unit airtight from outer air and arranging optical paths of the image intermediating lens unit and the image acquisition lens unit.

6. (original) The apparatus for acquiring image information according to claim 4, wherein the image acquisition unit further includes an installation unit having a plurality of through holes so that an end of the image collection lens unit is inserted therein to be exposed outward when the image acquisition unit is arranged in a predetermined geometric shape.

7. (original) The apparatus for acquiring image information according to claim 1, further comprising:

an image information processing unit for generating analog image information by processing the source electrical signal; and

an image information display unit for displaying the analog image information generated through the image information processing unit.

8. (original) The apparatus for acquiring image information according to claim 1, further comprising a light emitting unit having an optical device for supplementing deficient light quantity.

9. (original) The apparatus for acquiring image information according to claim 1, further comprising an array of light emitting units, each having an optical device, which supplements deficient light quantity and is arranged in a geometric shape.

10. (original) The apparatus for acquiring image information according to claim 1, wherein a program for calculating a value with respect to dimension of the subject by using geometric location and dimension information of the image acquisition unit is installed in the apparatus.

11. (original) An apparatus for acquiring image information using an array of image acquisition units, each having an optical device, comprising:

a plurality of image measurement terminal arrays including an image collection lens unit for first collecting image from a subject and an optical fiber bundle for transmitting

image optical information collected from the image collection lens unit;

an optical switching unit for switching optical signals for a subject image generated from a plurality of the arrays;

an array of image sensor units, each having an image intermediating lens unit for intermediating the optical signal output via the optical switching unit to an image acquisition unit and a light-receiving element for generating an electrical signal depending on intensity of the subject image obtained from the image acquisition lens unit; and

an image signal output unit for receiving the electrical signal generated from the array of the image sensor unit and then outputting a source electrical signal to process analog image.

12. (original) The apparatus for acquiring image information according to claim 11, wherein each of the image measurement terminal arrays is changeable in accordance with a geometric shape of the subject.

13. (original) The apparatus for acquiring image information according to claim 11, wherein the image measurement terminals are arranged in a square, radial or circular shape, or combination thereof.

14. (original) The apparatus for acquiring image information according to claim 11, wherein each of the image sensor units includes an optical path arrangement unit for keeping the image intermediating lens unit and the image acquisition lens unit airtight from outer air and arranging optical paths of the image intermediating lens unit and the image acquisition lens unit.

15. (original) The apparatus for acquiring image information according to claim 11, further comprising an installation unit having a plurality of through holes so that an end of the image collection lens unit is inserted therein to be exposed outward when the image measurement terminal is arranged in a predetermined geometric shape.

16. (original) The apparatus for acquiring image information according to claim 11, further comprising a light emitting unit having an optical device for supplementing deficient light quantity.

17. (original) The apparatus for acquiring image information according to claim 11, further comprising an array of light emitting units, each having an optical device, which supplements deficient light quantity and is arranged in a geometric shape.

18. (original) The apparatus for acquiring image information according to claim 11, further comprising:

an image information processing unit for generating analog image information by processing the source electrical signal; and

an image information display unit for displaying the analog image information generated through the image information processing unit.

19. (original) The apparatus for acquiring image information according to claim 11, wherein a program for calculating a value with respect to dimension of the subject by using geometry location and dimension information of the image acquisition unit is installed in the apparatus.